

REMARKS

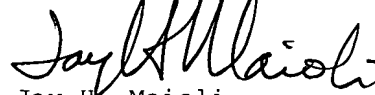
Claims 1-25 remain in the application and have been amended hereby.

As will be noted from the Declaration, Applicants are citizens and residents of Japan and this application originated there.

Accordingly, the amendments made to the specification are provided to place the application in idiomatic English, and the claims are amended to place them in better condition for examination.

An early and favorable examination on the merits is earnestly solicited.

Respectfully submitted,
COOPER & DUNHAM LLP


Jay H. Maioli
Reg. No. 27, 213

JHM:jbg

VERSION WITH MARKINGS TO SHOW CHANGES MADE
IN THE ABSTRACT OF THE DISCLOSURE

Please amend the Abstract by rewriting same to read as follows.

[The present invention provides a] A recording medium[. First] in which data is recorded [in the medium,] in the form of a track consisting of a plurality of bits. Second data is recorded on the medium in the form of a plurality of bits that are displaced in [the] a direction [at right angles] normal to the track. [The content] Content data representing the contents of the first data is also recorded [in] on the recording medium[, too]. The content data includes identification data that indicates whether the second data is recorded [in] on the recording medium.

IN THE CLAIMS

Please amend claims 1-25 by rewriting same to read as follows.

--1. (Amended) A recording medium configured to record [the] first data in [the] a form of a track consisting of a plurality of pits, [the] second data by displacing the pits from the track in a direction [at right angles] normal to the track, and content data representing [the] contents of the first data, including identification data that indicates whether the second data is recorded [in] on the medium.

--2. (Amended) The recording medium according to claim 1, wherein the content data further includes reproduction-mode identification data showing [the] modes of reproducing the first data and the second data.

--3. (Amended) The recording medium according to claim 2, wherein the reproduction-mode identification data represents [the] a first reproduction mode in which a signal is reproduced by performing an operation [of] on the first data and on the second data, and [the] a second reproduction mode in which the first data [or], the second data, or both the first and second data are reproduced.

--4. (Amended) The recording medium according to claim 1, [which has] having a first recording area [in which] for recording the first data and the second data [are to be recorded,] and a second recording area [from which data] for recording the content data that is read before [from] the first recording area [and in which the content data is to be recorded].

--5. (Amended) The recording medium according to claim 1, wherein the first data is 16-bit digital audio data modulated in an 8-to-14 modulating scheme.

--6. (Amended) The recording medium according to claim 5, wherein the second data is 4-bit digital audio data modulated in an 8-to-14 modulating scheme and the first data and the second data together form 20-bit audio data.

--7. (Amended) The recording medium according to claim 1, wherein the pits corresponding to the second data are displaced in the direction [at right angles] normal to the track[,] by distances [falling] within [such] a range that allows a laser beam [correctly] to scan the track.

--8. (Amended) A recording medium configured to record [the] first data in [the] a form of a track consisting of a plurality of pits, [the] second data by deforming the pits, and content data representing [the] contents of the first data, including identification data that indicates whether the second data is recorded [in] on the medium.

--9. (Amended) The recording medium according to claim 8, wherein the content data further includes reproduction-mode identification data showing [the] modes of reproducing the first data and the second data.

--10. (Amended) The recording medium according to claim 9, wherein the reproduction-mode identification data represents [the] a first reproduction mode [in which] for reproducing a signal [is reproduced] by performing an operation [of] on the first data and on the second data, and [the] a second reproduction mode [in which] for reproducing the first data [or], the second data, or both [are reproduced] the first data and the

second data.

--11. (Amended) The recording medium according to claim 8, [which has] having a first recording area [in which] for recording the first data and the second data [are to be recorded,] and a second recording area [from which data] for recording content data that is read before [from] the first recording area [and in which the content data is to be recorded].

--12. (Amended) The recording medium according to claim 8, wherein the first data is 16-bit digital audio data modulated in an 8-to-14 modulating scheme.

--13. (Amended) The recording medium according to claim 12, wherein the second data is 4-bit digital audio data modulated in an 8-to-14 modulating scheme and the first data and the second data together form 20-bit audio data.

--14. (Amended) A method [of] for reproducing data from a recording medium [in] on which the first data [or the], second data, or both the first data and the second data are recorded, and content data representing [the] contents of the first data is recorded, said first data recorded in [the] a form of a track consisting of a plurality of pits, said second data recorded by displacing the pits from the track in a direction [at right angles] normal to the track, and said content data including identification data that indicates [that] whether the second data is recorded [in] on the recording medium and reproduction-mode identification data that represents [the] a mode [in which] for reproducing the second data [is to be reproduced], said method comprising the steps of:

determining [the] a type of the recording medium from the identification data read from the recording medium; and

reproducing the first data and the second data[, both] read from the recording medium in accordance with the reproduction-mode identification data, when the second data is [found to be] recorded [in] on the recording medium.

--15. (Amended) The method of reproducing data from a recording medium, according to claim 14, wherein the reproduction-mode identification data represents [the] a first reproduction mode [in which] for reproducing a signal [is reproduced] by performing an operation [of] on the first data and on the second data, and [the] a second reproduction mode [in which] for reproducing the first data or the second data, or both the first data and the second data [are reproduced].

--16. (Amended) The method of reproducing data from a recording medium, according to claim 15, wherein, when the reproduction-mode identification data represents the first reproduction mode, an operation is performed on two data items obtained by reproducing the first data and the second data, both read from the recording medium[, thereby to reproduce data].

--17. (Amended) The method of reproducing data from a recording medium, according to claim 16, wherein, when the reproduction-mode identification data represents the second reproduction mode, either a first data item obtained by reproducing the first data or a second data item obtained by reproducing the second data is output.

--18. (Amendment) The method of reproducing data from a recording medium, according to claim 14, wherein the first data read from the recording medium is reproduced and output when the second data is [found] not [to be] recorded [in] on the recording medium.

--19. (Amendment) An apparatus for reproducing data from a recording medium [in] on which [the] first data or [the] second data, or both the first data and the second data are recorded, and content data representing [the] contents of the first data is recorded, said first data recorded in [the] a form of a track consisting of a plurality of pits, said second data recorded by displacing the pits from the track in a direction [at right angles] normal to the track, and said content data including identification data that indicates that the second data is recorded [in] on the medium and

reproduction-mode identification data that represents [the] a mode [in which] for reproducing the second data [is to be reproduced], said apparatus comprising:

a head section configured to apply a laser beam to scan the recording medium[, thereby to scan the recording medium];

a signal-reproducing section configured to reproduce a signal read from the recording medium by the head section; and

a control section configured to determine [the] a type of the recording medium from the reproduction-mode identification data read from the recording medium and to cause the signal-reproducing section to reproduce the first data and the second data, both read from the recording medium, in accordance with the reproduction-mode identification data, when the second data is [found to be] recorded [in] on the recording medium.

--20. (Amended) The apparatus for reproducing data, according to claim 19, wherein the signal-reproducing section comprises:

a first signal-processing section configured to perform at least demodulation in a signal output from the head section,

a second signal-processing section configured to perform at least demodulation on a component of the signal output from the head section, which corresponds to the displacement of pits from the track in a direction [at right angles] normal to the track, and

a mixing section configured to mix the data output from the first signal-processing section and the data output from the second signal-processing section.

--21. (Amended) The apparatus for reproducing data, according to claim 20, further comprising a switching circuit which is controlled by the control section[, thereby to select] for selecting the data output from the first signal-processing section or [the] data output from the mixing section.

--22. (Amended) The apparatus for reproducing data, according to

claim 21, wherein the control section further controls the switching circuit to select the data output from the mixing section[,] when the reproduction-mode identification data read from the recording medium by the head section represents a reproduction mode in which a signal is reproduced by performing an operation [of] on the first data and on the second data.

--23. (Amended) The apparatus for reproducing data, according to claim 21, wherein the control section further controls the switching circuit to select the data output from the first signal-processing section[,] when the reproduction-mode identification data read from the recording medium by the head section represents a reproduction mode in which the first data or the second data, or both the first data and the second data are reproduced.

--24. (Amended) The apparatus for reproducing data, according to claim 20, further comprising a switching circuit configured to supply [or not to supply] the second signal-processing section with a component of a signal in accordance with a control signal supplied from the control section, said component of the signal being one [which corresponds] corresponding to the displacement of the pits from the track in [a] the direction [at right angles] normal to the track.

--25. (Amended) The apparatus for reproducing data, according to claim 19, wherein the control section outputs [the] data output from the signal-reproducing section and corresponding to the first data read from the recording medium, when the identification data read from the recording medium by the head section indicates that the second data is found not to be recorded [in] on the recording medium.